

Product datasheet for **MG215787**

Gabrg3 (NM_008074) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gabrg3 (NM_008074) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gabrg3
Synonyms:	B230362M20Rik; Gabrg-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215787 representing NM_008074
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGCAAAGCTGCTGCTTCTCTCTGCTGTCTCGGGCTTGCATGCTCGGTCCAGGAGGGTAGAAG
 AAGATGAGAATGAAGACTCCCCATCAAACCAGAAGTGGGTCTTGGCACCCAAATCACAAGACACCGATGT
 AACGCTGATTCTCAACAAATTGTTGAGAGAATATGACAAAAAGCTGAGACCGGACATTGGAATAAAACCA
 ACTGTGATCGATGTGGACATTTATGTTAACAGCATTGGTCTGTGTATCCATAAACATGGAATACCAAA
 TTGATATATTTTTGCTCAAACCTGGACAGACAGTCGCCCTTCGATTCAACAGCACAATGAAAATACTAAC
 TCTGAACAGCAACATGGTGGCTTGATATGGATTCCAGACACCATCTTTCGAAATCTAAAAACAGCGGAG
 GCTCACTGGATCACCACACCCAACCAGCTCCTCAGAATCTGGAATGATGGGAAAAATCCTTACACATTAA
 GGCTCACTATCAATGCAGAGTCCAGCTGCAACTGCATAAATCCCTATGGATGCGCATGCCTGCCCTT
 GACCTTCTAGCTATGGCTACCCAAAGAAGAAATGATTTATCGTTGGAGGAAAAATTCAGTTGAGGCA
 GCTGATCAGAAATCATGGCGGCTCTATCAGTTTGACTTCATGGGCCTCAGAAACACTACAGAAATCGTGA
 CAACATCTGCAGGTGATTATGTTGTCATGACTATCTATTTTGAAGTGAAGTGAAGAAATGGGATCTTAC
 GATCCAGACGTATATCCCTGCATACTGACTGTGGTTCTGTCTGGGTGTCATTTTGGATAAAAAAGGAT
 GCGACACCAGCAAGAACAACATTAGGCATCACCACGGTGTAAACCATGACCACACTCAGCACCATTGCCA
 GGAAGTCTCTGCCTCGGGTGTCTATGCTACTGCCATGGACCTCTTTGTGACTGTGTGCTTCTTGTTTGT
 CTTTGGCCACTGATGGAGTATGCTACACTCAACTACTATTCAAGCTGTGAAAGCCAACCATCAGGAAG
 AAAAAACATCGTTATTACATCCAGATTCACAAGATGGATTCTGATCGAATAAGCCTTCAAGCACCT
 CTAATTACTCTACTGGACATGAGGCCCCACCCTGTGATGATCAGTTAAACAATTCATGACTG
 GCAGGAATTTGAGGACACTGTGTCTATGAGTGTCTGGATGGCAAGAACTGCCAGAGCTTCTTCTGCTGC
 TATGAGGAGTGAAGTCTGGCTCCTGGAGGAGAGCCGCATCCACATTGATGTCTCTGAGCTGGACTCCT
 ACTCTCGGGTCTTCTCCCGACATCCTTCTGCTGTTCAACTGGTCTATTGGGTTGGATACCTGTATCT
 T

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG215787 representing NM_008074
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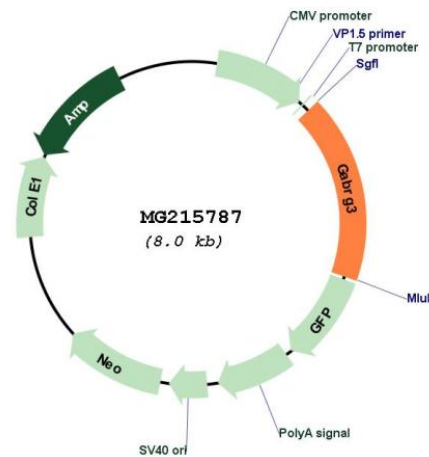
MAAKLLLLLCLFSGLHARSRRVEEDENEDSPSNQKWLAPKSQDQDVTLLLNKLLREYDKKLRPDIGIKP
 TVIDVDIYVNSIGPVSSINMEYQIDIFFAQWTWDSRLRFNSTMKILTLNSNMVGLIWIPDTIFRNSKTAE
 AHWITTPNQLLRIWNDGKILYTLRLTINAECQLQLHNFPMDAHACPLTFSSYGYPKEEMIYRWRKNSVEA
 ADQKSWRLYQDFMGLRNTTEIVTTSAGDYVVMTIYFELSRRMGYFTIQTYIPCILTVVLSWVSWFIKDD
 ATPARTTLGITTVLTMTLSTIARKSLPRVSYVTAMDLFVTVCFVFAALMEYATLNYYSSCRKPTIRK
 KKTSLHPDSTRWIPDRISLQAPSNYSLLDMRPPPPVMITLNNSMYWQEFEDTCVYECLDGKDCQSFCC
 YEECKSGSWRRGRIHIDVSELDYSYRVFFPTSFLFNLYVWVGYLYL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_008074

ORF Size: 1401 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_008074.3](#)

RefSeq Size: 1673 bp

RefSeq ORF: 1404 bp

Locus ID: 14407

UniProt ID: [P27681](#)

Cytogenetics: 7 33.48 cM

Gene Summary: GABA, the major inhibitory neurotransmitter in the vertebrate brain, mediates neuronal inhibition by binding to the GABA/benzodiazepine receptor and opening an integral chloride channel.[UniProtKB/Swiss-Prot Function]